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# SUBJECT INDEX VOL. 54 (1988)

**Aerobic regulation**
Nitrogen fixation; Protein synthesis (Hill, S. (54) 111)

***Agrobacterium***
Phenolic compound; Crown gall; Hairy root; Plant tumour (De Cleene, M. (54) 1)

**Aromatic**
Bacteria; Enzyme; Evolution; Fungus; Genetics (Fewson, C.A. (54) 85)

**Bacteria**
Aromatic; Enzyme; Evolution; Fungus; Genetics (Fewson, C.A. (54) 85)

**By-product**
Oxygen toxicity; Ethanol tolerance; Osmotolerance (Bringer-Meyer, S. (54) 131)

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Ethanol; Yeast; *Zymomonas*; Membrane permeability; Intracellular concentration; Equilibrium distribution; Cytoplasmic water; Sorbitol accessable space; $^3H_2O$ distribution; Replication; Deactivation (Jones, R.P. (54) 239)

**Cellulase-hemicellulase complex**
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**Chemotherapy**
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Phenolic compound; *Agrobacterium*; Hairy root; Plant tumour (De Cleene, M. (54) 1)

**Cytochrome**
*Nitrobacter winogradskyi*; NADPH; Nitrite oxidizing system (Yamanaka, T. (54) 259)

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Ethanol; Yeast; *Zymomonas*; Membrane permeability; Intracellular concentration; Equilibrium distribution; Sorbitol accessable space; $^3H_2O$ distribution; Replication; Deactivation; By-product inhibition (Jones, R.P. (54) 239)

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**DNA sequence analysis**
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**Endo/exoglucanase**
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**Enterobacteriaceae**
Enterobacterial common antigen; Surface antigen; Glycophospholipid (Kuhn, H.-M. (54) 195)

**Enterobacterial common antigen**
Surface antigen; Glycophospholipid; Enterobacteriaceae (Kuhn, H.-M. (54) 195)

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Thyroid hormone; Iodothyronine sulphatase; Iodothyronine glucuronidase; Intestinal bacterium (Hazenberg, M.P. (54) 9)

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Aromatic; Bacteria; Evolution; Fungus; Genetics (Fewson, C.A. (54) 85)

**Enzyme regulation**
Thioredoxin reductase; Ribonucleotide reductase; Protein disulfide reductase; Protein structure; Phage replication (Gleason, F.K. (54) 271)

**Equilibrium distribution**
Ethanol; Yeast; *Zymomonas*; Membrane permeability; Intracellular concentration; Cytoplasmic water; Sorbitol accessable space; $^3H_2O$ distribution; Replication; Deactivation; By-product inhibition (Jones, R.P. (54) 239)

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Yeast; *Zymomonas*; Membrane permeability; Intracellular concentration; Equilibrium distribution; Cytoplasmic water;

Sorbitol accessable space; $^3H_2O$ distribution; Replication; Deactivation; By-product inhibition (Jones, R.P. (54) 239)

**Ethanol tolerance**
By-product; Oxygen toxicity; Osmotolerance (Bringer-Meyer, S. (54) 131)

**Eukaryote cell**
Proteinase; Yeast; (Biochemistry); (Genetics) (Rendueles, P.S. (54) 17)

**Evolution**
Aromatic; Bacteria; Enzyme; Fungus; Genetics (Fewson, C.A. (54) 85)

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Oxido-reduction protein; Physicochemical property; Structural and phylogenetic relationship (Bruschi, M. (54) 155)

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Aromatic; Bacteria; Enzyme; Evolution; Genetics (Fewson, C.A. (54) 85)

**Genetics**
Aromatic; Bacteria; Enzyme; Evolution; Fungus (Fewson, C.A. (54) 85)

**Genus *Desulfovibrio***
Hydrogenases; Sulfate-reducing bacteria; Iron-containing hydrogenases; Nickel-iron-containing hydrogenases; Nickel-iron-selenium-containing hydrogenases (Fauque, G. (54) 299)

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**Hairy root**
Phenolic compound; *Agrobacterium*; Crown gall; Plant tumour (De Cleene, M. (54) 1)

**$^3H_2O$ distribution**
Ethanol; Yeast; *Zymomonas*; Membrane permeability; Intracellular concentration; Equilibrium distribution; Cytoplasmic water; Sorbitol accessable space; Replication; Deactivation; By-product inhibition (Jones, R.P. (54) 239)

**Host range**
Transposon mutagenesis; Minireplicons; DNA sequence analysis (Krishnapillai, V. (54) 223)

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Thyroid hormone; Iodothyronine sulphatase; Iodothyronine glucuronidase; Enterohepatic circulation (Hazenberg, M.P. (54) 9)

**Intracellular concentration**
Ethanol; Yeast; *Zymomonas*; Membrane permeability; Equilibrium distribution; Cytoplasmic water; Sorbitol accessable space; $^3H_2O$ distribution; Replication; Deactivation; By-product inhibition (Jones, R.P. (54) 239)

**Iodothyronine glucuronidase**
Thyroid hormone; Iodothyronine sulphatase; Intestinal bacterium; Enterohepatic circulation (Hazenberg, M.P. (54) 9)

**Iodothyronine sulphatase**
Thyroid hormone; Iodothyronine glucuronidase; Intestinal bacterium; Enterohepatic circulation (Hazenberg, M.P. (54) 9)

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Hydrogenases; Sulfate-reducing bacteria; Nickel-iron-containing hydrogenases; Nickel-iron-selenium-containing hydrogenases; Genus *Desulfovibrio* (Fauque, G. (54) 299)

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Endotoxin; Lipid A; 'Mixed' lipid A; Lipopolysaccharide; Phototrophic bacterium; Phylogeny (Weckesser, J. (54) 143)

Endotoxin; 'Mixed' lipid A; Lipid $A_{DAG}$; Lipopolysaccharide; Phototrophic bacterium; Phylogeny (Weckesser, J. (54) 143)

**Lipopolysaccharide**
Endotoxin; Lipid A; 'Mixed' lipid A; Lipid $A_{DAG}$; Phototrophic bacterium; Phylogeny (Weckesser, J. (54) 143)

**Membrane permeability**
Ethanol; Yeast; *Zymomonas*; Intracellular concentration; Equilibrium distribution; Cytoplasmic water; Sorbitol accessable space; $^3H_2O$ distribution; Replication; Deactivation; By-product inhibition (Jones, R.P. (54) 239)

**Minireplicons**
Host range; Transposon mutagenesis; DNA sequence analysis (Krishnapillai, V. (54) 223)

**'Mixed' lipid A**
Endotoxin; Lipid A; Lipid $A_{DAG}$; Lipopolysaccharide; Phototrophic bacterium; Phylogeny (Weckesser, J. (54) 143)

**NADPH**
***Nitrobacter winogradskyi***; Cytochrome; Nitrite oxidizing system (Yamanaka, T. (54) 259)

**Nickel-iron-containing hydrogenases**
Hydrogenases; Sulfate-reducing bacteria; Iron-containing hydrogenases; Nickel-iron-selenium-containing hydrogenases; Genus *Desulfovibrio* (Fauque, G. (54) 299)

**Nickel-iron-selenium-containing hydrogenases**
Hydrogenases; Sulfate-reducing bacteria; Iron-containing hy-

drogenases; Nickel-iron-containing hydrogenases; Genus *Desulfovibrio* (Fauque, G. (54) 299)

**Nitrite oxidizing system**
*Nitrobacter winogradskyi*; Cytochrome; NADPH (Yamanaka, T. (54) 259)

***Nitrobacter winogradskyi***
Cytochrome; NADPH; Nitrite oxidizing system (Yamanaka, T. (54) 259)

**Nitrogen fixation**
Aerobic regulation; Protein synthesis (Hill, S. (54) 111)

**Osmotolerance**
By-product; Oxygen toxicity; Ethanol tolerance (Bringer-Meyer, S. (54) 131)

**Oxido-reduction protein**
Ferredoxin; Physicochemical property; Structural and phylogenetic relationship (Bruschi, M. (54) 155)

**Oxygen toxicity**
By-product; Ethanol tolerance; Osmotolerance (Bringer-Meyer, S. (54) 131)

**Parasite**
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**Phage replication**
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**Phenolic compound**
*Agrobacterium*; Crown gall; Hairy root; Plant tumour (De Cleene, M. (54) 1)

**Phototrophic bacterium**
Endotoxin; Lipid A; 'Mixed' lipid A; Lipid $A_{DAG}$; Lipopolysaccharide; Phylogeny (Weckesser, J. (54) 143)

**Phylogeny**
Endotoxin; Lipid A; 'Mixed' lipid A; Lipid $A_{DAG}$; Lipopolysaccharide; Phototrophic bacterium (Weckesser, J. (54) 143)

**Physicochemical property**
Ferredoxin; Oxido-reduction protein; Structural and phylogenetic relationship (Bruschi, M. (54) 155)

**Plant tumour**
Phenolic compound; *Agrobacterium*; Crown gall; Hairy root (De Cleene, M. (54) 1)

**Proteinase**
Yeast; Eukaryote cell; (Biochemistry); (Genetics) (Rendueles, P.S. (54) 17)

**Protein disulfide reductase**
Thioredoxin reductase; Ribonucleotide reductase; Enzyme regulation; Protein structure; Phage replication (Gleason, F.K. (54) 271)

**Protein structure**
Thioredoxin reductase; Ribonucleotide reductase; Protein disulfide reductase; Enzyme regulation; Phage replication (Gleason, F.K. (54) 271)

**Protein synthesis**
Nitrogen fixation; Aerobic regulation (Hill, S. (54) 111)

**Purine**
Pyrimidine; Parasite; Chemotherapy (Hassan, H.F. (54) 47)

**Pyrimidine**
Purine; Parasite; Chemotherapy (Hassan, H.F. (54) 47)

**Replication**
Ethanol; Yeast; *Zymomonas*; Membrane permeability; Intracellular concentration; Equilibrium distribution; Cytoplasmic water; Sorbitol accessable space; $^3H_2O$ distribution; Deactivation; By-product inhibition (Jones, R.P. (54) 239)

**Ribonucleotide reductase**
Thioredoxin reductase; Protein disulfide reductase; Enzyme regulation; Protein structure; Phage replication (Gleason, F.K. (54) 271)

**Saccharification / fermentation**
Cellulase-hemicellulase complex; Endo/exoglucanase; (Mutation, Protoplast technology) (Lachke, A.H. (54) 177)

**Sorbitol accessable space**
Ethanol; Yeast; *Zymomonas*; Membrane permeability; Intracellular concentration; Equilibrium distribution; Cytoplasmic water; $^3H_2O$ distribution; Replication; Deactivation; By-product inhibition (Jones, R.P. (54) 239)

**Structural and phylogenetic relationship**
Ferredoxin; Oxido-reduction protein; Physicochemical property (Bruschi, M. (54) 155)

**Sulfate-reducing bacteria**
Hydrogenases; Iron-containing hydrogenases; Nickel-iron-containing hydrogenases; Nickel-iron-selenium-containing hydrogenases; Genus *Desulfovibrio* (Fauque, G. (54) 299)

**Surface antigen**
Enterobacterial common antigen; Glycophospholipid; Enterobacteriaceae (Kuhn, H.-M. (54) 195)

**Thioredoxin reductase**
Ribonucleotide reductase; Protein disulfide reductase; Enzyme regulation; Protein structure; Phage replication (Gleason, F.K. (54) 271)

**Thyroid hormone**
Iodothyronine sulphatase; Iodothyronine glucuronidase; Intestinal bacterium; Enterohepatic circulation (Hazenberg, M.P. (54) 9)

**Transposon mutagenesis**
Host range; Minireplicons; DNA sequence analysis (Krishnapillai, V. (54) 223)

**Yeast**
Proteinase; Eukaryote cell; (Biochemistry); (Genetics) (Rendueles, P.S. (54) 17)

Ethanol; *Zymomonas*; Membrane permeability; Intracellular concentration; Equilibrium distribution; Cytoplasmic water; Sorbitol accessable space; $^3H_2O$ distribution; Replication; Deactivation; By-product inhibition (Jones, R.P. (54) 239)

***Zymomonas***
Ethanol; Yeast; Membrane permeability; Intracellular concentration; Equilibrium distribution; Cytoplasmic water; Sorbitol accessable space; $^3H_2O$ distribution; Replication; Deactivation; By-product inhibition (Jones, R.P. (54) 239)